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From: Chernyshev, Olga
Sent: Monday, March 08, 2004 1:16 PM
To: STIC-Biotech/ChemLib
Subject: sequence search request

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US case 09/905,075. Interference search for SEQ ID NO: 2.

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Olga N. Chernyshev

AU1646

REM 4E84

20870

mail box 4D70

Nails rapm, rapb

2-0353an

Searcher: Port
Phone: _____
Location: _____
Date Picked Up: 3/9
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AA Sequences: _____
Structures: _____
Bibliographic: _____
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Full text: _____
Patent Family: _____
Other: _____

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DIALOG: _____
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DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: OS
WWW/Internet: _____
Other (specify): _____

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Sequence Sys.: _____
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Other (specify): _____

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OM protein - protein search, using sw model

Run on: March 9, 2004, 15:47:41 ; Search time 23 Seconds
(without alignments)
792.346 Million cell updates/sec

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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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6	971.5	48.5	420	4	US-09-902-775A-109
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ALIGNMENTS

RESULT 1
US-09-907-794A-2
; Sequence 2, Application US/09907794A
; Patent No. 6635468

GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Pao, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,794A
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547

;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 2
;; LENGTH: 353
;; TYPE: PRP
;; ORGANISM: Homo sapiens
US-09-907-794A-2

Query Match 100.0%; Score 2005; DB 4; Length 353;
Best Local Similarity 100.0%; Pred. No. 2.6e-150;
Matches 353; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 2

US-09-905-125A-2

; Sequence 2, Application US/09905125A

; Patent No. 6664376

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

;; APPLICANT: Grimaldi, Christopher J.
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Hillan, Kenneth, J.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Mather, Jennie P.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William, I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: 10466-14
;; CURRENT APPLICATION NUMBER: US/09/905.125A
;; CURRENT FILING DATE: 2001-07-12
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: 2000-02-22
;; PRIOR APPLICATION NUMBER: US 60/143,048
;; PRIOR FILING DATE: 1999-07-07
;; PRIOR APPLICATION NUMBER: US 60/145,698
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;; PRIOR FILING DATE: 1999-12-16
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;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 2
;; LENGTH: 353
;; TYPE: PRP
;; ORGANISM: Homo sapiens
US-09-905-125A-2

Query Match 100.0%; Score 2005; DB 4; Length 353;

Best Local Similarity 100.0%; Pred. No. 2.6e-150;

Matches 353; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MRLPRAALGLPLLLPPAPEAAKKTPTCHRCGLVDKFNQGVDTAKNFGGNTAW 60
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; Sequence 2, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
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; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
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; PRIOR APPLICATION NUMBER: PCT/US99/21090
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; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
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; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 2
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-775A-2
Query Match 100.0%; Score 2005; DB 4; Length 353;
Best Local Similarity 100.0%; Pred. No. 2.6e-150;
Matches 353; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 MRLPRRAALGLPLLLLLPPAPEAAKKTPCHRCRGLVDKFNQGMVDTAKNFGGNTAW 60
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Db 61 EKTLSKYESSRIRLLEILGLCESSDFECNOMLEAQEHLAWWLQKXSEYDPLFEWFC 120
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Db 241 CSAAFCCKNANGSYTCCECDSSCVGCTGEGPGNCKECISGYAREHGQCADVDECSLAEXT 300
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; Sequence 109, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
```

APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,794A
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
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PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 109
LENGTH: 420
TYPE: PRT
ORGANISM: Homo sapiens
US-09-907-794A-109

Query Match 48.5%; Score 971.5; DB 4; Length 420;
Best Local Similarity 48.2%; Pred. No. 7e-69;
Matches 170; Conservative 48; Mismatches 116; Indels 19; Gaps 5;

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Db 192 CQCGGLGYFEARNASHLVCSACFGPCARCSPEENCLQCKGWLHLKVDIDEQGT 251
QY 237 EPPPCSAAGFCRNANGSYTCEDSSCVGCTGEGPNCCKECISGVAREHGQCADVDECSL 296
Db 252 EGANCCGADQFCVNTGSEYECRDCAKACLCGMCAGPGRCKKSPGYQVQVGSKCLVDDECE- 310

QY 297 AEKTCVRKNENYNTPGSYVCVCPDGFEEETDACP---PAEA-----EATEGE 342
Db 311 -TEVCPGENQCENTGGYRCICAEGYKQMEGICVKEQIPESAGFFSEMTED 362

RESULT 5
US-09-905-125A-109
Sequence 109, Application US/09905125A
Patent No. 6664376
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/905,125A
CURRENT FILING DATE: 2001-07-12
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219

; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 109
; LENGTH: 420
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-125A-109

Query Match 48.5%; Score 971.5; DB 4; Length 420;
Best Local Similarity 48.2%; Pred. No. 7e-69;
Matches 170; Conservative 48; Mismatches 116; Indels 19; Gaps 5;

QY 7 AALGLPLLLLP-----PAPEAA--KKPTCHRCRGLVDKFNQGMVDTAKNFGG 56
DB 12 AVLWGLSLFLNLPGLPIWLQPSPPQSPPPQHPCHTCRGLVDSFNKGLERTIRDNFGG 71

QY 57 NTAMEEKTLSKYESSEIRLLEILEGLCESSDFECNQMLEAQEEHLEAWWLQKSEYDPLF 116
DB 72 NTAMEEENLSKYKDSKSEITLVEVLGVCSKSDPFCHRLLESEELVESWFFHKQAEADPLF 131

QY 117 EWFVCVTKLVCCSPGTGPDCLACOGSQRPCSGNGHCSGDGSRQDGSRCRCHMGYQG 176
DB 132 QWLCSDSLKCLCPAGTFGSCLPDGGTERPCGGYGQCEGSTRGSGHCDCCQAGYGGEA 191

QY 177 CTDCMDGVFSSLRNETHSICTACDESCKTCSGLTNRDCGECEVGMVLDEGACVDVDECAA 236
DB 192 CGQGLGYFEARNASHLVCSACFGPCARCSGPESNCLQCKGKWLHHLKCVDIDCGT 251

QY 237 EPPPCSAQFCNKANGSYTCEECDSVCGGTGEGNCKECSIGYAREHGQCADVDECSL 296
DB 252 EGANGCADQFCVNTGEGYECRDCAKCLGCMGAGPGRCKKCSPCYQQVQVGSKCLDVECE- 310

QY 297 AEKTCVRNENCVNTPGSYVCVCPDGPETEADVP---PAAE----EATEGE 342
DB 311 -TEVCPGENKQCENTEGGYRCICAGYKQMEGICVKEIPESAGFFSEMTED 362

RESULT 6

US-09-902-775A-109
; Sequence 109, Application US/09902775A
; Patent No. 686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: ROY, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tunas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 109
; LENGTH: 420
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-775A-109

Query Match 48.5%; Score 971.5; DB 4; Length 420;
Best Local Similarity 48.2%; Pred. No. 7e-69;
Matches 170; Conservative 48; Mismatches 116; Indels 19; Gaps 5;

QY 7 AALGLPLLLLP-----PAPEAA--KKPTCHRCRGLVDKFNQGMVDTAKNFGG 56
DB 12 AVLWGLSLFLNLPGLPIWLQPSPPQSPPPQHPCHTCRGLVDSFNKGLERTIRDNFGG 71

QY 57 NTAMEEKTLSKYESSEIRLLEILEGLCESSDFECNQMLEAQEEHLEAWWLQKSEYDPLF 116
DB 72 NTAMEEENLSKYKDSKSEITLVEVLGVCSKSDPFCHRLLESEELVESWFFHKQAEADPLF 131

QY 117 EWFVCVTKLVCCSPGTGPDCLACOGSQRPCSGNGHCSGDGSRQDGSRCRCHMGYQG 176
DB 132 QWLCSDSLKCLCPAGTFGSCLPDGGTERPCGGYGQCEGSTRGSGHCDCCQAGYGGEA 191

QY 177 CTDCMDGVFSSLRNETHSICTACDESCKTCSGLTNRDCGECEVGMVLDEGACVDVDECAA 236
DB 192 CGQGLGYFEARNASHLVCSACFGPCARCSGPESNCLQCKGKWLHHLKCVDIDCGT 251

QY 237 EPPPCSAQFCNKANGSYTCEECDSVCGGTGEGNCKECSIGYAREHGQCADVDECSL 296
DB 252 EGANGCADQFCVNTGEGYECRDCAKCLGCMGAGPGRCKKCSPCYQQVQVGSKCLDVECE- 310

QY 297 AEKTCVRNENCVNTPGSYVCVCPDGPETEADVP---PAAE----EATEGE 342
DB 311 -TEVCPGENKQCENTEGGYRCICAGYKQMEGICVKEIPESAGFFSEMTED 362

RESULT 7

US-09-312-283C-393
; Sequence 393, Application US/09312283C
; Patent No. 6573095


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QY 257 -----EEDSSCV---GCTGEGPNCK-ECISQY--ARHGQCADVDECSLAEK--- 299
Db 759 GRLSCIDVDECEAGKVCQDGCINTTSGSQCLSGYHLSDRSRCEIDEDCFPAACIG 818
QY 300 -TCVRKNEN-----CYNTPGSYVCVCPDGF 323
Db 819 GDCINTNGSVRCILPLGHLRVGRKCKDIDEGSQDPGLCLPHACENLQGSYVCVCDGFG 878
QY 324 EETED 328
Db 879 TLTDQ 883

RESULT 10
US-08-751-305-2
; Sequence 2, Application US/08751305
; Patent No. 5965439
; GENERAL INFORMATION:
; APPLICANT: Tenner et al., Andrea J.
; TITLE OF INVENTION: HOST DEFENSE ENHANCEMENT
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/751,305
; FILING DATE: 18-NOV-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Wetherell, Jr., John R.
; REGISTRATION NUMBER: 31,678
; REFERENCE/DOCKET NUMBER: 07306/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 652 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-751-305-2

Query Match 12.7%; Score 254.5; DB 2; Length 652;
Best Local Similarity 30.7%; Pred. No. 3.1e-12;
Matches 78; Conservative 27; Mismatches 88; Indels 61; Gaps 15;
QY 95 EAQEHLEAWNLQKSEYDPLFEWFCVTKLVCCSPGYGPDCLACQGSQRPSCS-GNGH 153
Db 227 EGDKDETQSHYFLCKEAPDVFDM-----GSSGPLCVSPKYG---CNFNNGG 270
QY 154 CSGDSRQDGS--CRCHMGYQGLCTDCMDGYFSSLRNETHSICTACDESKTCSGLTN 211
Db 271 CHQDCFEGDGSFLCGCRPGFR--LLDDLVT---CASRNPCSSSPCRGGATCVLGPFGKN 325
QY 212 RDCGCEVGMWLDEGA--CVDVDECAAEPPPCSAQFCNANGSYTCEDSSC-VGCTG 268
Db 326 YTC-RCPGYQLDSSQLDCVDVDEC--QDSPC--AQECVNTPGPERCE-----CWVGYP 375
QY 269 EGPNGCKECISGYAREHGQCADVDECSLAEKTCVRKNENCYNTPGSYVCVCPDGF--- 324
Db 376 GPGF-----EGACQDVDECALGRSPCA---QGCWTWIDSGFHCSEGYVLAGE 420
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QY 325 -----ETEDACVPP 333
Db 421 DGTQCQDVDECVGP 434

RESULT 11
US-08-479-722B-2
; Sequence 2, Application US/08479722B
; Patent No. 6074840
; GENERAL INFORMATION:
; APPLICANT: Bonadio, Jeffrey
; APPLICANT: Yin, Wushan
; TITLE OF INVENTION: LATENT TGF( BINDING PROTEIN (LTBP)
; TITLE OF INVENTION: GENES, COMPOSITIONS AND METHODS
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Williams, Morgan & Amerson
; STREET: 7676 Hillmont, Suite 250
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77040
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/479,722B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US PCT/US95/02251
; FILING DATE: 21-FEB-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/316,650
; FILING DATE: 30-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/199,780
; FILING DATE: 18-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Fussey, Shelley P.M.
; REGISTRATION NUMBER: 39,458
; REFERENCE/DOCKET NUMBER: 4100.000500/FUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (713) 934-7000
; TELEFAX: (713) 934-7011
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1833 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-479-722B-2

Query Match 12.5%; Score 250; DB 3; Length 1833;
Best Local Similarity 24.8%; Pred. No. 2.2e-11;
Matches 82; Conservative 22; Mismatches 94; Indels 132; Gaps 16;
QY 128 CSPG-----TYGPDCLACQGSQRPSCGNHCHSGDSRQDGSRCRMGY-----QG 174
Db 883 CSPGQLHPSQDYCTDDNECM---RNPCEGRGRCV---NSVGSYCLCVPGYTLVLGDT 936
QY 175 PLCTD-----CMDGYFSSLRNETHSIC-----TACDESC 203
Db 937 QECQDIDCEQPGVCGGRCNSNTEGSHCECDRGYIMVRKHGCHQDINCRHPGTCPDGRC 996
QY 204 KTCGLTNRDGCECEVGMWLDEGACVDVDE-----CAAEP----- 238
Db 997 VNSPG--SYTCLACEGYVGQSGSCVDVNECLTPGICTHGRCLINMEGSRFCSEPGYEV 1054
QY 239 -----PPCSA-----AQFCNANGSYTCEDCS-----SCVG----- 265
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Db 1055 PDKKGRDVBDCASRASCPTGLCLNTEGFTCSACQSGYWNEDGTACEDLDECAFFGVC 1114
Qy 266 ---CTGE-GPGNCKECLISGYARE--HGQCADVDDECSLAETKVRKNENCYNTPGSYVCV 318
Db 1115 PTGVCINTVGSFSCDKCDQGYRPNPLGNRCEDVDCEGPOSSC--RGGECKNTEGYSYQCL 1172
Qy 319 CPDGFEEET-----EDACVPPAE 335
Db 1173 CHQGFQLVNGTMCEDVNECVGEHCAHGE 1202

RESULT 12
PCT-US95-02251-18
; Sequence 18, Application PC/TUS9502251
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR STIMULATING BONE
; TITLE OF INVENTION: CELLS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: United States of America
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
; SOFTWARE: Patent In Release #1.0, Version
; SOFTWARE: #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/02251
; FILING DATE: CONCURRENTLY HERewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/316,650
; FILING DATE: 30-SEP-1994
; CLASSIFICATION:
; APPLICATION NUMBER: US 08/199,780
; FILING DATE: 18-FEB-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Parker, David L.
; REGISTRATION NUMBER: 32,165
; REFERENCE/DOCKET NUMBER: UMICO09P--
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (713) 789-2679
; TELEX: 79-0924
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1833 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US95-02251-18

Query Match 12.5%; Score 250; DB 5; Length 1833;
Best Local Similarity 24.8%; Pred. No. 2.2e-11;
Matches 82; Conservative 22; Mismatches 94; Indels 132; Gaps 16;
Qy 128 CSPG-----TYGPDCLACQSGRQPCSGNGHSGDGSRGDSRCRCHMGY-----QG 174
Db 883 CSPGQLHPSQDYCTDDNECM--RNPCGGRGV---NSVGSYCLCPGYTLVLTGDT 936
Qy 175 PLCTD-----CMQGYFSLNETHSIC-----TACDESC 203
Db 937 QECQDIDCEQPGVCSGGRCSNTEGSHCECDRGVIMVRKGHGCDINECRHPGTCPDGR 996
Qy 204 KTCGLNDRDCEGEVGVWLDGACVDYE-----CAAEF----- 238

Db 997 VNSPG--SYTLACEBGIYQSGSCVDVNECLTPGICTHGRCINMEGSPRCCEPGYEV 1054
Qy 239 -----PPCSA-----AQCFKNANGSVTCECDSS-----SCVG----- 265
Db 1055 PDKKGRDVBDCASRASCPTGLCLNTEGFTCSACQSGYWNEDGTACEDLDECAFFGVC 1114
Qy 266 ---CTGE-GPGNCKECLISGYARE--HGQCADVDDECSLAETKVRKNENCYNTPGSYVCV 318
Db 1115 PTGVCINTVGSFSCDKCDQGYRPNPLGNRCEDVDCEGPOSSC--RGGECKNTEGYSYQCL 1172
Qy 319 CPDGFEEET-----EDACVPPAE 335
Db 1173 CHQGFQLVNGTMCEDVNECVGEHCAHGE 1202

RESULT 13
PCT-US95-02251-3
; Sequence 3, Application PC/TUS9502251
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR STIMULATING BONE
; TITLE OF INVENTION: CELLS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: United States of America
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
; SOFTWARE: Patent In Release #1.0, Version
; SOFTWARE: #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/02251
; FILING DATE: CONCURRENTLY HERewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/316,650
; FILING DATE: 30-SEP-1994
; CLASSIFICATION:
; APPLICATION NUMBER: US 08/199,780
; FILING DATE: 18-FEB-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Parker, David L.
; REGISTRATION NUMBER: 32,165
; REFERENCE/DOCKET NUMBER: UMICO09P--
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (713) 789-2679
; TELEX: 79-0924
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1251 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US95-02251-3

Query Match 12.3%; Score 246.5; DB 5; Length 1251;
Best Local Similarity 23.5%; Pred. No. 2.7e-11;
Matches 100; Conservative 41; Mismatches 109; Indels 175; Gaps 25;
Qy 20 PAPAANKPTPCRCRGLVDKQGMVDATAKKNFGGNTAKWEKTLKYSSESLEIL 79
Db 517 PYELISRPSP-----PFFHFPDIPP-----SRSAVEIAPTQVTFDECLNQNI 563
Qy 80 --EGLC--ESSDF--ECNQMLEAQEHLAWLQLKSEYDPLFEWFCVKTLKVCSPGT 133

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Db 564 CGHQCVPGPSDYSCHNAGYRSHPOHR-----YCVDVNE--CEAEP 604
QY 134 GPCLACQ--GGSORPCSGNHGCS-----GDGSRQ-----GDG----- 164
Db 605 GPGKIGCMNTGGSY-----NCHNRYRLHVAGGRSCVDLNECAKPHLGGDGGFCINFP 659
QY 165 ---SCRCHMGY---QGPLCTD-----CWDGYFSSLRNETHSI--CTACDESKTC 206
Db 660 GHYKNCYPGYRLKASRPICEDIDECRDSTCPDG--KCNKPGSKFKCIAQPGYRSQ 716
QY 207 SGLTNRDCGEVGVWLDEGACVDVDECAAEPPPCSAQFCKNANGSYTC----- 256
Db 717 GG-----GACRDVNEC--SEGTPCSPG--WCEKLPGSYRCTCAQGIIRTR 757
QY 257 -----EBCDSSCV---GCTGEGGNCK--ECISGY--AREHQCQADVDECSLAEK--- 299
Db 758 GRLSCIDVDDECAKVCQDGCITNTPGSFOCQLSGYHLSDRSRCEIDECDFPAACIG 817
QY 300 -TCVRKNEN-----CYNTPGSYVVCVCPDGF 323
Db 818 GDCINTNGSYRCLPLGHLVGGKCKKIDECSDQDFGLCLPHACENLQSGYVVCVDEGF 877
QY 324 EETED 328
Db 878 TLTDQ 882
RESULT 14
US-08-199-780-3
; Sequence 3, Application US/08199780
; Patent No. 5763416
; GENERAL INFORMATION:
; APPLICANT: Bonadio, Jeffrey
; APPLICANT: Goldstein, Steven A.
; TITLE OF INVENTION: Gene Transfer Into Bone Cells
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30B
; CURRENT APPLICATION DATA:
; FILING DATE: 18-FEB-1994
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Parker, David
; REGISTRATION NUMBER: 32,165
; REFERENCE/DOCKET NUMBER: UMIC:002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 320-7200
; TELEFAX: (512) 474-7577
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1252 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-199-780-3
Query Match 12.3%; Score 246.5; DB 1; Length 1252;
Best Local Similarity 23.5%; Pred. No. 2.7e-11;
Matches 100; Conservative 41; Mismatches 109; Indels 175; Gaps 25;
QY 20 PAPEAAKPTPCHRCRGLVDKFNQGMVDTAKNFGGNTAWEEKTLKYSESSEIRLEIL 79
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Db 518 PYELLISRSP-----PTFHRFLDLP-----SRSAVEIAPTQVTTDECRNLQNI 564
QY 80 --BGLC--BSSDF--ECNOMLEAQEBHLEAWLQKSEYPDLEFECVKTLKVCSSPGTY 133
Db 565 CGHQCVPGPSDYSCHNAGYRSHPOHR-----YCVDVNE--CEAEP 605
QY 134 GPCLACQ--GGSORPCSGNHGCS-----GDGSRQ-----GDG----- 164
Db 606 GPGKIGCMNTGGSY-----NCHNRYRLHVAGGRSCVDLNECAKPHLGGDGGFCINFP 660
QY 165 ---SCRCHMGY---QGPLCTD-----CWDGYFSSLRNETHSI--CTACDESKTC 206
Db 661 GHYKNCYPGYRLKASRPICEDIDECRDSTCPDG--KCNKPGSKFKCIAQPGYRSQ 717
QY 207 SGLTNRDCGEVGVWLDEGACVDVDECAAEPPPCSAQFCKNANGSYTC----- 256
Db 718 GG-----GACRDVNEC--SEGTPCSPG--WCEKLPGSYRCTCAQGIIRTR 758
QY 257 -----EBCDSSCV---GCTGEGGNCK--ECISGY--AREHQCQADVDECSLAEK--- 299
Db 759 GRLSCIDVDDECAKVCQDGCITNTPGSFOCQLSGYHLSDRSRCEIDECDFPAACIG 818
QY 300 -TCVRKNEN-----CYNTPGSYVVCVCPDGF 323
Db 819 GDCINTNGSYRCLPLGHLVGGKCKKIDECSDQDFGLCLPHACENLQSGYVVCVDEGF 878
QY 324 EETED 328
Db 879 TLTDQ 883
RESULT 15
US-08-316-650-3
; Sequence 3, Application US/08316650
; Patent No. 5942496
; GENERAL INFORMATION:
; APPLICANT: Bonadio, Jeffrey
; APPLICANT: Roessler, Blake J.
; APPLICANT: Goldstein, Steven A.
; APPLICANT: Lin, Wushan
; TITLE OF INVENTION: METHODS AND COMPOSITIONS
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/199,780
; FILING DATE: 30-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Parker, David L.
; REGISTRATION NUMBER: 32,165
; REFERENCE/DOCKET NUMBER: UMIC:008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (713) 789-2679
; TELE: 79-0924
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
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; LENGTH: 1252 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-316-650-3

Query Match      12.3%; Score 246.5; DB 2; Length 1252;
Best Local Similarity 23.5%; Pred. No. 2.7e-11;
Matches 100; Conservative 41; Mismatches 109; Indels 175; Gaps 25;

QY 20 PAPEAAKKTPTCHRCRGLVDKFNQGMVDTAKNFGGNTAWEEKTLKYSESSEIRLEIL 79
Db 518 PYPELISRSP-----PTFHRFLPDLPP-----SRSAVEIAPTQVTETDECRINQNI 564

QY 80 --EGLC--ESSDF--ECNQMLEAQEEHLEAWLQLKSEYPDLEFWFCVKTAVCCSPGTY 133
Db 565 CGHGQCVFSPSYCHCNAGYSHFQHR-----YCVDVNE--CRAEPC 605

QY 134 GPDCLACQ--GGSQRPCSGNGHCS-----GDGSRQ-----GDG----- 164
Db 606 GPGKGICMNTGGSY-----NHCNRYRLHVGAGGRSCVDLNECAKPHLCGDGDFCINFP 660

QY 165 ---SCRCHMGY-----QGPLCTD-----CMDGYFSSLNETHSI-CTACDESKTC 206
Db 661 GHYKNCYPGYRLKASRPPICEDIECRDPSTCPDG---KCNKPGSFKCIACQPGYRSQ 717

QY 207 SGLTNRDCGECEVGWVLDEGACVDVDECAAEPPPCSAQFCKNANGSYTC----- 256
Db 718 GG-----GACRDVNEC-SEGTPCSPG-WCEKLPGSYRCTCAQGIPTRT 758

QY 257 -----EEDSSCV---GCTGEGPGNCK-ECISGY--AREHGQCADVDGCSLAEK--- 299
Db 759 GRLSCIDVDDCEAGKVCODGICTNTPGSGFQCCLSGYHLSDRSRCEIDEDCFPAACIG 818

QY 300 -TCVRKNEN-----CYNTPGSYVCVCPDGF 323
Db 819 GDCINTNGSYRCLPLGHRVLGGRKCKDIDECSDQDGLCLPHACENLQGSYVCVCEGF 878

QY 324 EETED 328
Db 879 TLTQD 883
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Search completed: March 9, 2004, 16:00:05
Job time : 25 secs